

2022

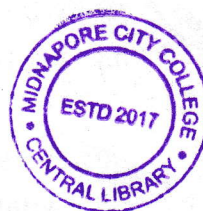
**B.F.Sc. 1st Semester Examination**

**Fish Nutrition**

PAPER — BFSC-109

Full Marks : 50

Time : 2 hours



*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers  
in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

1. Answer **any ten** from the following questions :  
2×10=20

(a) State the importance of Protein in Nutrition.

(b) Mention the names of two important amino acids available in fish tissue.

(c) Mention the importance of collagen in fish tissue.

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( Turn Over )



( 2 )

- (a) What are essential fatty acids? Give example.
- (b) What is the importance of lipid in human diet?
- (c) What is the function of Choline?
- (d) What is rancidity?
- (e) What is antioxidant? Give example from fish tissue.
- (f) What is protein efficiency ratio?
- (g) What is TMAO?
- (h) What is non-protein nitrogen?
- (i) Write down the names of water soluble vitamins available in fish muscle.
- (j) Mention the importance of PUFA in human nutrition.
- (k) Define NPU.
- (l) What is fish smoking?

2. Answer any six from the following questions :  
5×6=30

- (a) Write the nutritional value of shell fishes. 5
- (b) Give an account on  $\beta$ -oxidation process of lipid. 5

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(Continued)

( 3 )

- (c) Write the nutritional composition of *Clarias* sp. and *Heteropneustes fossilis*. 5
- (d) State the importance of micronutrients in human diets available from fish. 5
- (e) What are the important fat-soluble vitamins? Write their functions. 2+3=5
- (f) State the macromolecules available and their role in nutrition. 5
- (g) Write the quality changes after cooking of fish. 5
- (h) State the nutrition value of Crustaceans in human nutrition. 5
- (i) Give an account on fermentation process improving the nutrient value of fish. 5
- (j) Write the importance of fish in human nutrition. 5

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B.F.Sc./1<sup>st</sup> Sem/BFSC-109/23

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